

WHAT IS CLAIMED IS:

1. A broadcast receiver comprising:

receiving means for receiving a broadcast signal
in response to a request from an external terminal
5 capable of communicating with the broadcast receiver,
the broadcast signal being transmitted by multiplexing
identification information for identifying the
broadcast receiver with control information for
controlling the broadcast receiver;

10 communication means for communicating with the
external terminal;

extraction means for extracting information data
regarding information designated by the control
information in accordance with the identification
15 information and control information contained in the
received broadcast signal; and

control means for controlling to make said
communication means transmit the information data
regarding the information to the external terminal in
20 response to reception of the control information.

2. A broadcast receiver according to claim 1,
further comprising means for generating display data
for displaying on display means of the external
25 terminal, in accordance with the control information,
wherein the information data contains the display data.

3. A broadcast receiver according to claim 2,
wherein the display data is data for displaying an
operation assistance screen for assisting an operation
of the external terminal.

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4. A broadcast receiver according to claim 3,
wherein the operation assistance screen assists at
least one operation of a record operation, a record
reservation operation and a viewing reservation
operation of video and audio data of a program received
by the broadcast receiver, an operation of obtaining
program information data and data broadcast data of the
program, and a record operation of the data broadcast
data of the program.

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5. A broadcast receiver according to claim 2,
further comprising:

initial screen setting means for setting
information for structuring an initial screen; and

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storage means for storing initial screen setting
data set by said initial screen setting means,

wherein if the control information is initial
screen transmission command information, said
extraction means extracts the initial screen setting
data from said storage means, said generating means
generates the display data in accordance with the
initial screen setting data, and said control means

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controls to transmit the display data to the external terminal.

5 6. A broadcast receiver according to claim 1,
wherein the broadcast signal contains program
information data and the control information is command
information for transmitting the program information
data to the external terminal.

10 7. A broadcast receiver according to claim 6,
wherein the program information data is data regarding
an electronic program guide EPG and contains
information such as a channel name, a program name, a
broadcast day and time, and program contents.

15 8. A broadcast receiver according to claim 1,
wherein the broadcast signal contains data broadcast
data, and the control information is command
information for transmitting the data broadcast data to
20 the external terminal.

25 9. A broadcast receiver according to claim 1,
wherein said control means controls to the information
data regarding the information to the external terminal
at a predetermined time.

10. A broadcast receiver according to claim 1,

wherein the external terminal is a portable terminal capable of mobile communications.

11. A broadcast receiver according to claim 1,
5 wherein said control means further controls an operation of the broadcast receiver in accordance with the control information, and controls at least one operation of a record operation, a record reservation operation and a viewing reservation operation of video
10 and audio data of a program contained in the broadcast signal, and a record operation of data broadcast data of the program.

12. A broadcast reception method comprising steps
15 of:

receiving a broadcast signal in response to a request from an external terminal capable of communicating with a broadcast receiver, the broadcast signal being transmitted by multiplexing identification information for identifying the broadcast receiver with
20 control information for controlling the broadcast receiver;

communicating with the external terminal;

extracting information data regarding information
25 designated by the control information in accordance with the identification information and control information contained in the received broadcast signal;

and

controlling to transmit the information data regarding the information to the external terminal in response to reception of the control information.

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13. A broadcast reception method according to claim 12, further comprising a step of generating display data for displaying on display means of the external terminal, in accordance with the control
10 information, wherein the information data contains the display data.

14. A broadcast reception method according to claim 13, wherein the display data is data for
15 displaying an operation assistance screen for assisting an operation of the external terminal.

15. A broadcast reception method according to claim 14, wherein the operation assistance screen
20 assists at least one operation of a record operation, a record reservation operation and a viewing reservation operation of video and audio data of a program received by the broadcast receiver, an operation of obtaining program information data and data broadcast data of the
25 program, and a record operation of the data broadcast data of the program.

16. A broadcast reception method according to claim 13, further comprising steps of:

setting information for structuring an initial screen; and

5 storing the set initial screen setting data,
wherein if the control information is initial screen transmission command information, the stored initial screen setting data is read, the display data is generated in accordance with the initial screen
10 setting data, and the display data is transmitted to the external terminal.

17. A broadcast reception method according to claim 12, wherein the broadcast signal contains program
15 information data and the control information is command information for transmitting the program information data to the external terminal.

18. A broadcast reception method according to
20 claim 17, wherein the program information data is data regarding an electronic program guide EPG and contains information such as a channel name, a program name, a broadcast day and time, and program contents.

25 19. A broadcast reception method according to claim 12, wherein the broadcast signal contains data broadcast data, and the control information is command

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information for transmitting the data broadcast data to the external terminal.

20. A broadcast reception method according to
5 claim 12, wherein the information data regarding the information is transmitted to the external terminal at a predetermined time.

10 21. A broadcast reception method according to claim 12, wherein the external terminal is a portable terminal capable of mobile communications.

15 22. A broadcast reception method according to claim 12, wherein an operation of the broadcast receiver is controlled in accordance with the control information, and at least one operation of a record operation, a record reservation operation and a viewing reservation operation of video and audio data of a program contained in the broadcast signal, and a record
20 operation of data broadcast data of the program is controlled.

23. A storage medium storing a program for executing a broadcast reception method, the broadcast
25 reception method comprising steps of:

receiving a broadcast signal in response to a request from an external terminal capable of mobile

communications with a broadcast receiver, the broadcast signal being transmitted by multiplexing identification information for identifying the broadcast receiver with control information for controlling the broadcast

5 receiver;

communicating with the external terminal;

extracting information data regarding information designated by the control information in accordance with the identification information and control
10 information contained in the received broadcast signal;
and

controlling to transmit the information data regarding the information to the external terminal in response to reception of the control information.

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24. A broadcast receiver comprising:

receiving means for receiving a broadcast signal in response to a request from a portable terminal capable of mobile communications with the broadcast
20 receiver, the broadcast signal being transmitted by multiplexing identification information for identifying the broadcast receiver with control information for controlling the broadcast receiver;

operation control means for executing a control
25 operation designated by the control information in accordance with the identification information and control information contained in the broadcast signal

received by said receiving means;

communication means for communicating with the portable terminal; and

communication control means for controlling said
5 communication means to communicate with the portable terminal in accordance with a control by said operation control means.

25. A broadcast receiver according to claim 24,
10 further comprising extraction means for extracting information data regarding data designated by the control information, wherein said communication control means controls said communication means to transmit the
information data extracted by said extraction means to
15 the portable terminal.

26. A broadcast receiver according to claim 24,
further comprising means for generating display data for displaying on display means of the portable
20 terminal, in accordance with the control information, wherein the information data contains the display data.

27. A broadcast receiver according to claim 24 wherein the display data is data for displaying an
25 operation assistance screen for assisting an operation of the portable terminal.

28. A broadcast receiver according to claim 27,
wherein the operation assistance screen assists at
least one operation of a record operation, a record
reservation operation and a viewing reservation
5 operation of video and audio data of a program received
by the broadcast receiver, an operation of obtaining
program information data and data broadcast data of the
program, and a record operation of the data broadcast
data of the program.

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29. A broadcast receiver according to claim 27,
wherein said operation control means controls at least
one operation of a record operation, a record
reservation operation and a viewing reservation
15 operation of video and audio data of a program
contained in the broadcast signal, and a record
operation of data broadcast data of the program.

30. A digital television broadcast receiver
20 comprising:

receiving means for receiving digital broadcast
data;

extraction means for extracting program
information data regarding a program from the digital
25 broadcast data;

decoding means for decoding the program
information data;

first screen structuring means for structuring a first user operation assistance screen for assisting a user of the receiver in accordance with the decoded data;

5 communication means for communicating with a remote operation terminal;

second screen structuring means for structuring a second user operation assistance screen for assisting a user of the remote operation terminal; and

10 control means for controlling to transmit display data for the second user operation assistance screen and identification information unique to the remote operation terminal from said communication means to the remote operation terminal.

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31. A digital television broadcast receiver according to claim 30, wherein the first user operation assistance screen includes a screen constituted of electronic program guide EPG data contained in the broadcast data, and the second user operation assistance screen contains display data includes display data with the electronic program guide data replaced with characters and symbols.

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32. A digital television broadcast receiver according to claim 30, wherein data of the second user operation assistance screen includes one of bit map

image data, Joint Photographic Expert Group JPEG image data, HyperText Markup Language HTML described data, and eXtensible Markup Language XML described data.

5 33. A digital television broadcast receiver
according to claim 30, wherein the second user
operation assistance screen is a screen for assisting a
record operation of video and audio data and data
broadcast data of a program contained in the broadcast
10 data.

10 34. A digital television broadcast receiver
according to claim 30, wherein the remote operation
terminal has displaying means for receiving the display
15 data and identification data transmitted from said
communication means and displaying the second user
operation assistance screen in accordance with the
received display data and identification information.

20 35. A digital television broadcast receiver
according to claim 34, wherein the remote operation
terminal has instructing means for instructing a
control command for controlling the broadcast receiver
in accordance with the second user operation assistance
25 screen displayed by said displaying means, and
transmitting means for transmitting control information
regarding the instructed control command together with

identification information unique to the broadcast receiver.

36. A digital television broadcast receiver
5 according to claim 35, wherein the identification
information unique to the broadcast receiver a viewer
identification number regarding pay program viewing
contained in the broadcast data received by the
broadcast receiver.

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37. A digital television broadcast receiver
according to claim 35, wherein said receiving means
receives the control information and the identification
information unique to the broadcast receiver
15 transmitted from the remote operation terminal, as an
entitlement management message EMM transmitted by a
broadcaster transmitting the broadcast data.

38. A digital television broadcast receiver
20 according to claim 30, wherein said control means
controls to transmit the second user operation
assistance screen at a predetermined time from said
communication means to the remote operation terminal.

39. A digital television broadcast receiver
25 according to claim 30, wherein the identification
information unique to the remote operation terminal is

a phone number.

40. A digital television broadcast receiver
according to claim 30, wherein the identification
5 information unique to the remote operation terminal is
an email address.

41. A digital television broadcast receiver
according to claim 30, wherein the remote operation
10 terminal has image pickup means for taking an image of
a subject.

42. An external terminal comprising:
communication means for communicating with a
15 broadcast receiver for receiving a broadcast
transmitted by multiplexing identification information
for identifying the broadcast receiver with control
information for controlling the broadcast receiver,
extracion information data regarding information
20 designated by the control information in accordance
with the identification information and control
information contained in the received broadcast signal,
and transmitting the information data regarding the
information to the external terminal in response to
25 reception of the control information;

receiving means for receiving the information data
transmitted from the broadcast receiver via said

communication means; and

display means for displaying a screen of the information regarding the information data received by said receiving means.

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43. An external terminal according to claim 42, further comprising:

designating means for designating a control operation for controlling the broadcast receiver in accordance with the information screen displayed by said display means; and

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transmitting means for transmitting the control information regarding the control operation designated by said designating means and the identification information to a broadcast transmitter to multiplex the control information and identification information into the broadcast signal.

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44. A broadcast receiver control system comprising:

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a broadcast transmitter, responsive to a request from an external terminal capable of communications with a broadcast receiver, for transmitting a broadcast signal by multiplexing identification information for identifying the broadcast receiver and control information for controlling the broadcast receiver;

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said broadcast receiver deriving information data

regarding information designated by the control
information in accordance with the identification
information and control information transmitted from
said broadcast transmitter, and transmitting the
5 information data to said external terminal; and

said external terminal receiving the information
data from said broadcast receiver and displaying a
screen of the information regarding the information
data.

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